

BCC Security-Tec™ - Coaxial Cables For HDTV

RG-6, RG-11 and RG-59 Cables

Sweep Tested 1 ~ 4500 MHz 75 Ohm PVC Coaxial Cables for HDTV

BCC Part No: C1229 – C1279 – C1280



BRITISH CABLES COMPANY

Applications

HDTV

Operating Temperature

-25 to +75 °C

Max. Operating Voltage

300 Vrms

Standard References

IEC 61196
(BS) EN 50117
(BS) EN 50290-2
IEC 60332-1-2
RoHS directives

Design

1. Conductor

Solid Bare Copper

2. Dielectric

Foamed Polyethylene

3. Screen

Bonded Aluminium/
Polyester foil
100% coverage

4. Braid

Tinned Copper

5. Sheath Material

Polyvinyl Chloride (PVC)
Colour: Orange

Standard Put Up Length

305 or 500 metres



Physical Characteristics

Coax Cables for HDTV		RG-59 4.5 GHz	RG-6 4.5 GHz	RG-11 4.5 GHz
BCC Part Numbers		C1229	C1279	C1280
Nom. Diameter Conductor	mm	0.81	1.02	1.63
Nom. Diameter Dielectric	mm	3.71	4.60	7.11
Nom. Overall Diameter	mm	6.0	6.8	10.0
Coverage Braid	%	95	95	95
Max. Recommended Pulling Tension	N	210	310	640
Min. Bend Radius (Install)	mm	60	68	100
Weight	kg/km	48.2	59	117

Electrical Characteristics (at 20°C)

Coax Cables for HDTV		RG-59 4.5 GHz	RG-6 4.5 GHz	RG-11 4.5 GHz
BCC Part Numbers		C1229	C1279	C1280
Impedance	Ohm	75 ± 3	75 ± 3	75 ± 3
Max. DC Resistance Conductor	Ω/km	33.5	21.5	8.8
Max. DC Resistance Screen	Ω/km	12.5	10.6	6.6
Nominal Capacitance	pF/m	53	53	53
Nominal Inductance	μH/m	0.32	0.32	0.32
Velocity of Propagation	%	83	83	83
Nominal Time Delay	ns/m	3.94	3.94	3.94
Min. Return Loss 1 to 1000 MHz	dB	23	23	23
Min. Return Loss 1000 to 2000 MHz	dB	22	22	22
Min. Return Loss 2000 to 3000 MHz	dB	16	16	16
Min. Return Loss 3000 to 4500 MHz	dB	15	15	15

Nominal Attenuation in dB/100m

MHz	1	5	10	50	100	300	550	750	1000	2000	3000	4500	3000
RG-59	0.98	2.07	2.95	6.23	7.55	13.68	18.83	22.23	25.96	38.24	46.13	56.50	48.64
RG-6	0.79	1.71	2.33	4.57	6.40	11.96	15.76	18.05	21.36	31.44	39.76	50.46	39.83
RG-11	0.53	1.12	1.51	2.96	4.20	7.49	10.41	12.38	14.57	21.84	27.93	35.98	28.08



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